Abstract of the Disclosure

When an L*a*b* value of a certain color is outside a target color gamut to be converted, it is judged whether the L*a*b* value is located within the range of the color gamut set under a predetermined condition. This set range is a range in which the accuracy is degraded if colors are converted using only a first method, for example, a range in the neighborhood of the color gamut. If a color to be converted is located within the range, colors are converted using a second method. If the L*a*b* value of the color to be converted is outside of the set range, it is converted using the first method until the conversion result is contained within the range Then, the occurrence of both a problem which the first conversion method has for colors in the neighborhood of the color gamut when colors are converted and a problem which the second method has in the conversion of a color far from the color gamut can be suppressed.